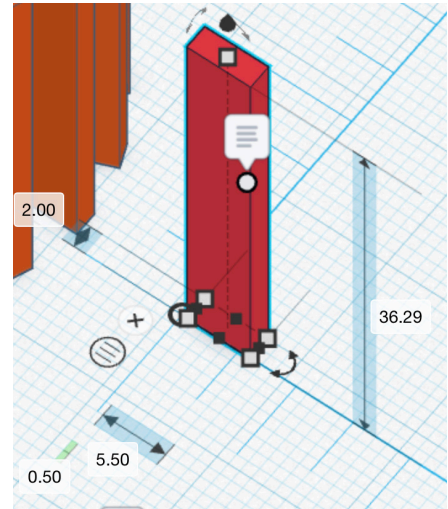
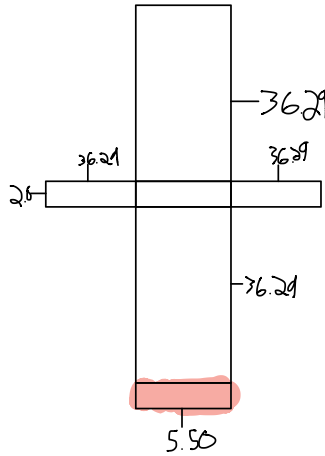


Shape	Volume Formula	Area Formula
Rectangular Prism	$W \times H \times B = Volume$	$(H \times W) \times 2 = A, repeat \times 3$
Cylinder	$Volume = (3.14 \times R^2) \times H$	$S = (3.14 \times R^2) \times 2 + C \times H$
Tube	$Volume = (3.14 \times R^2) \times H$ -inside cylinder volume	$S = (3.14 \times R^2) \times 2 + C \times H$ -Inside cylinder surface area

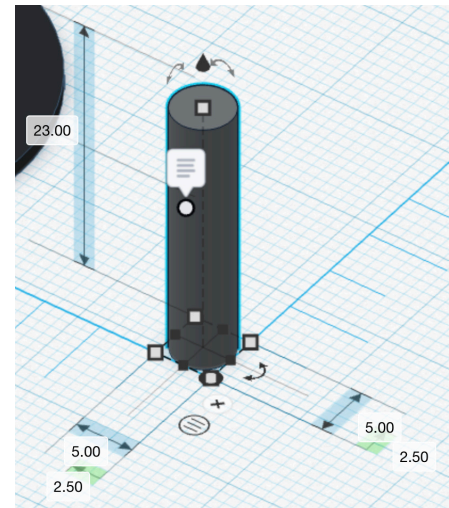
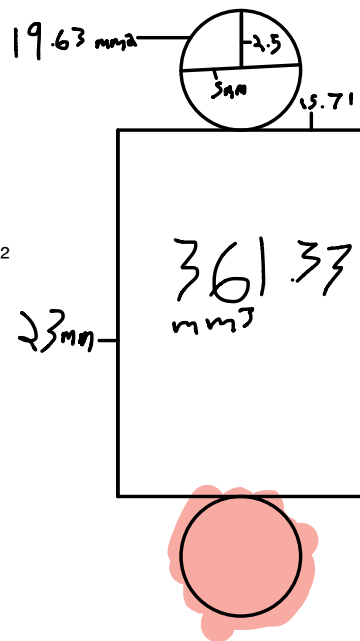
Shape 1: rectangular prism

Volume: 6,387.04mm³
Area: 8,885.6mm²



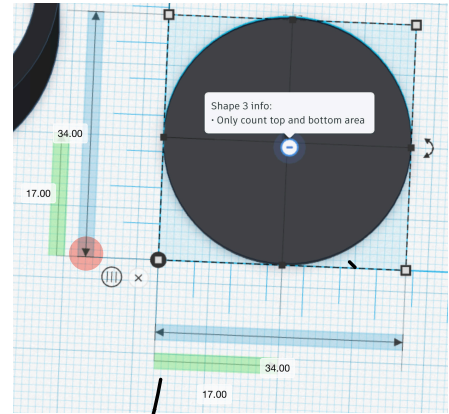
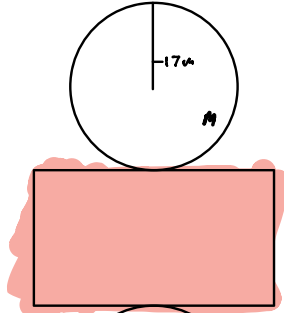
Shape 2:

Volume: 451.6mm³
Surface area: 7,092.9079mm²



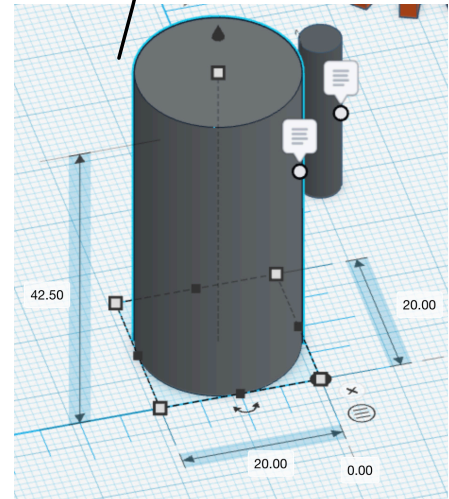
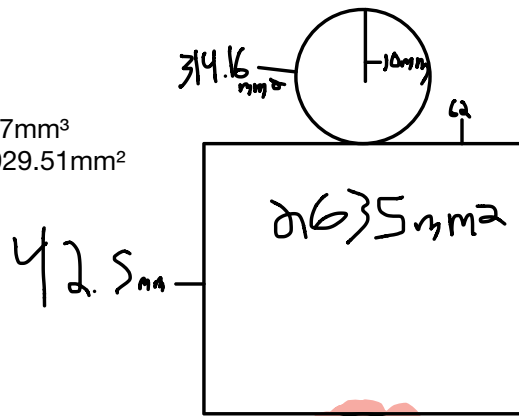
Shape 3:

Volume: 4684.87mm³
 Surface area: 1,325.68mm²



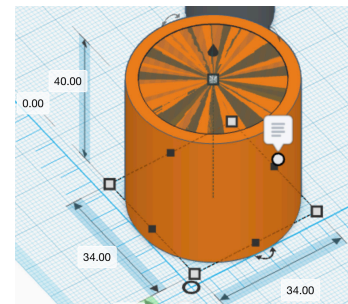
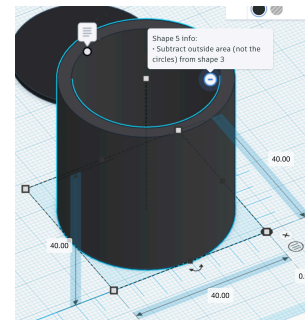
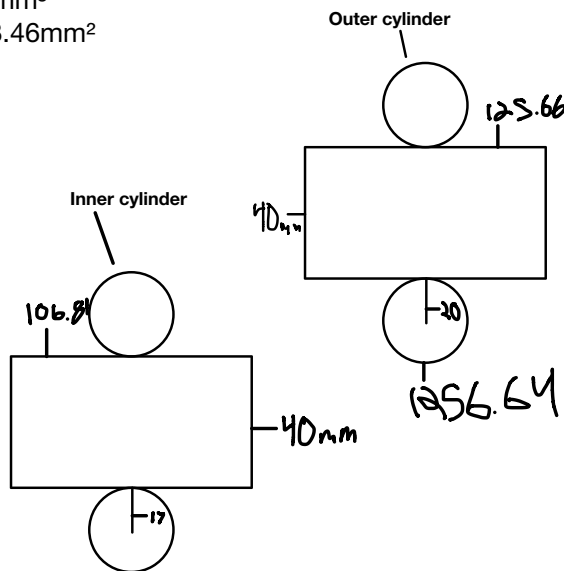
Shape 4:

Volume: 13351.77mm³
 Surface area: 2,929.51mm²



Shape 5:

Volume: 13,948.67mm³
 Surface area: 9,858.46mm²



Total Volume:

$$6,387.04 + 451.6 + 4684.87 + 13351.77 + 13,948.67 = 38,823.95\text{mm}^3$$

$$38,823.95\text{mm}^3$$

Total Surface Area:

$$8,885.6 + 7,092.90 + 1,325.68 + 2,929.51 + 9,858.46 = 30,092.15\text{mm}^2$$

$$30,092.15\text{mm}^2$$

Surface Area to Volume Ratio:

$$30,092\text{mm}^2 : 38,824\text{mm}^3$$

Or

$$\text{Approx. } 0.8:1$$

$$\text{Exactly } 0.77508757469606:1$$